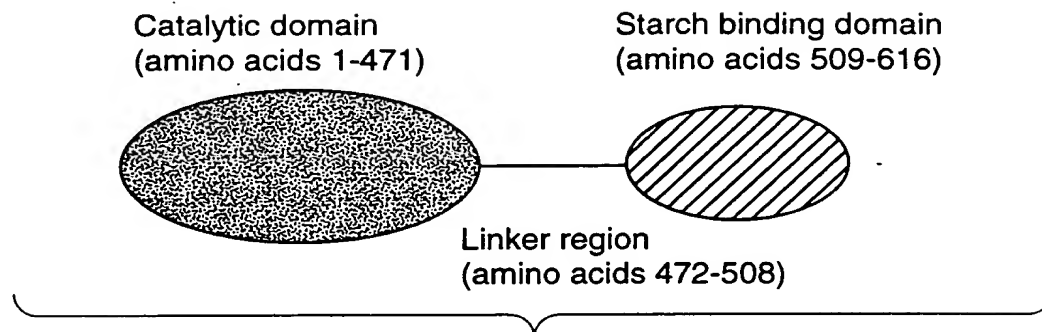


1 / 16

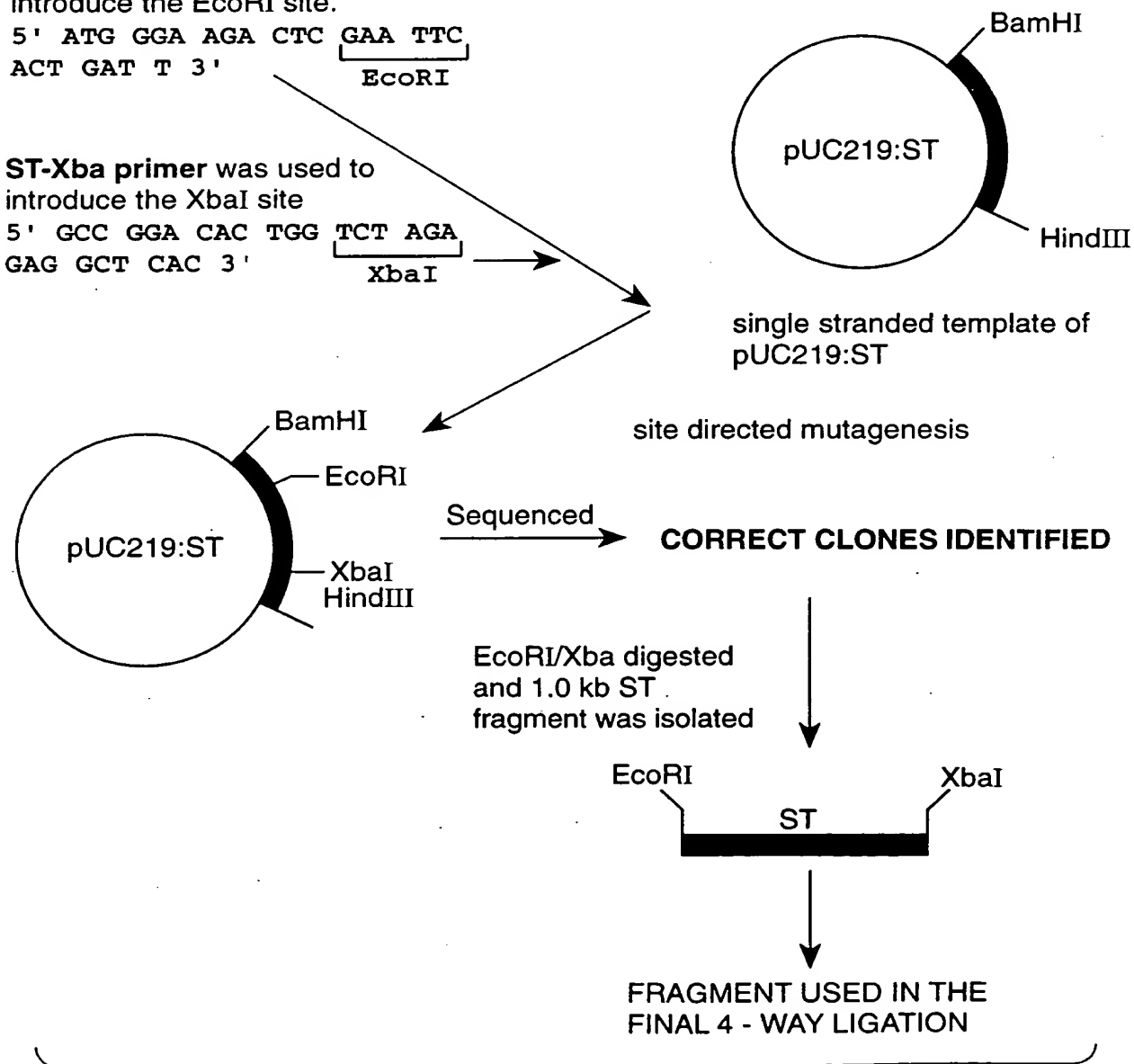
**FIG. 1**

ST-EcoRI primer was used to introduce the EcoRI site.

5' ATG GGA AGA CTC GAA TTC
ACT GAT T 3' EcoRI

ST-Xba primer was used to introduce the XbaI site

5' GCC GGA CAC TGG TCT AGA
GAG GCT CAC 3' XbaI

**FIG. 2A**

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GAM-ST link SalI-EcoRI no kex

TCG ACC GCG ACG GTG ACC GAC ACC TGG CGG CTA CAC TTA CTC CAA TGG
 GAA GAC TCG
 AAT CGA GTC TTC CCA TTG GAG TAA GTG TAG CCG CCA GGT GTC GGT CAC
 CGT CGC GG

annealed and
phosphorylated

Subcloned into
pSL1180: NheI/EcoRI

**CORRECT CLONES
VERIFIED BY
SEQUENCING**

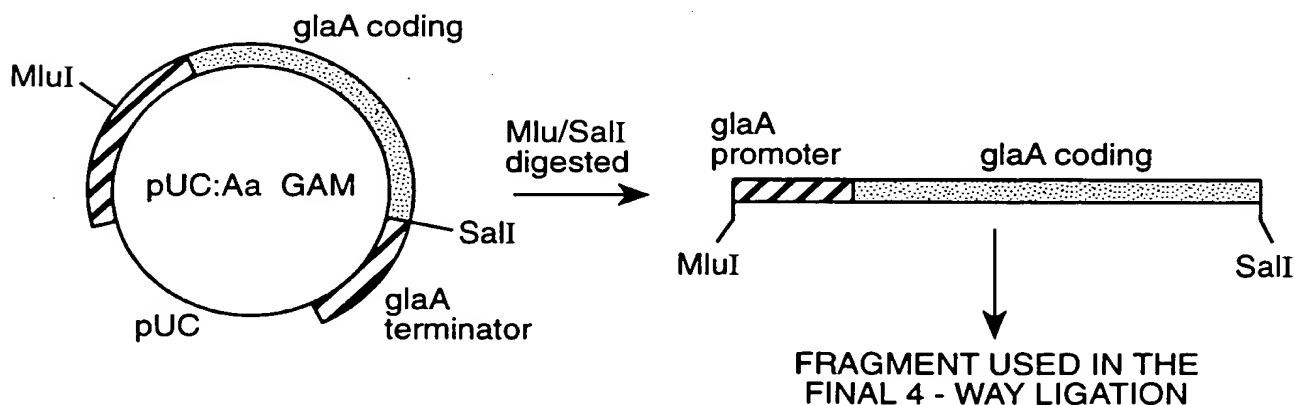
annealed and
phosphorylated

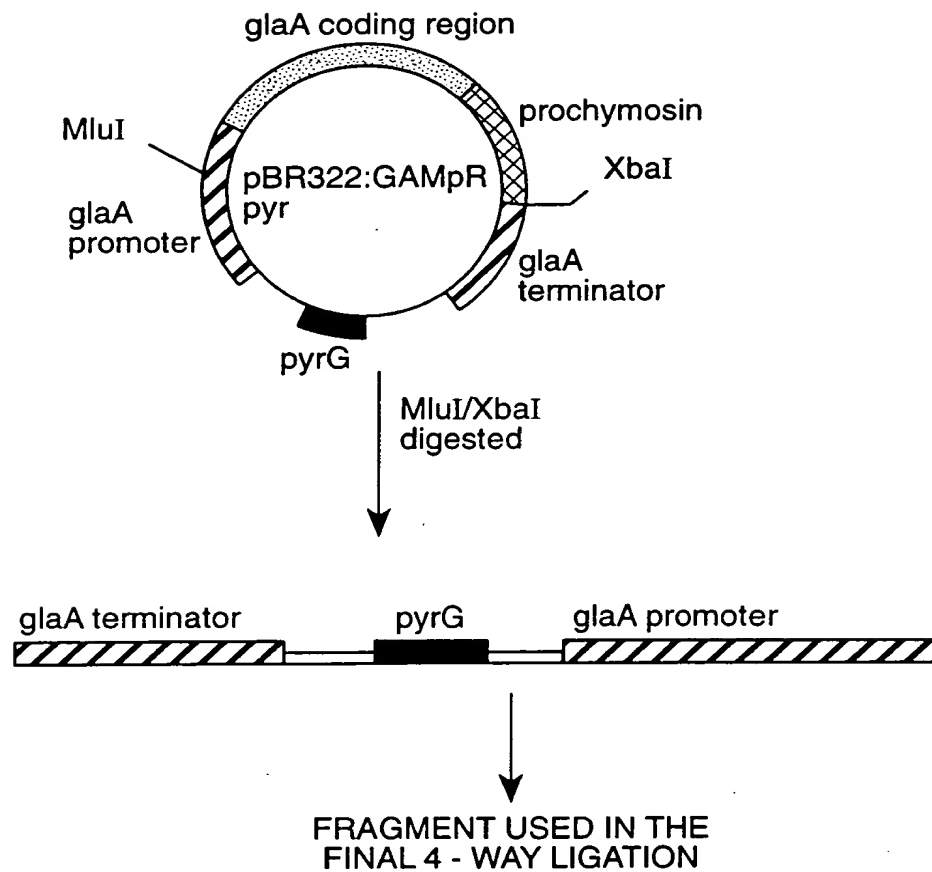
Subcloned into
pSL1180: NheI/EcoRI

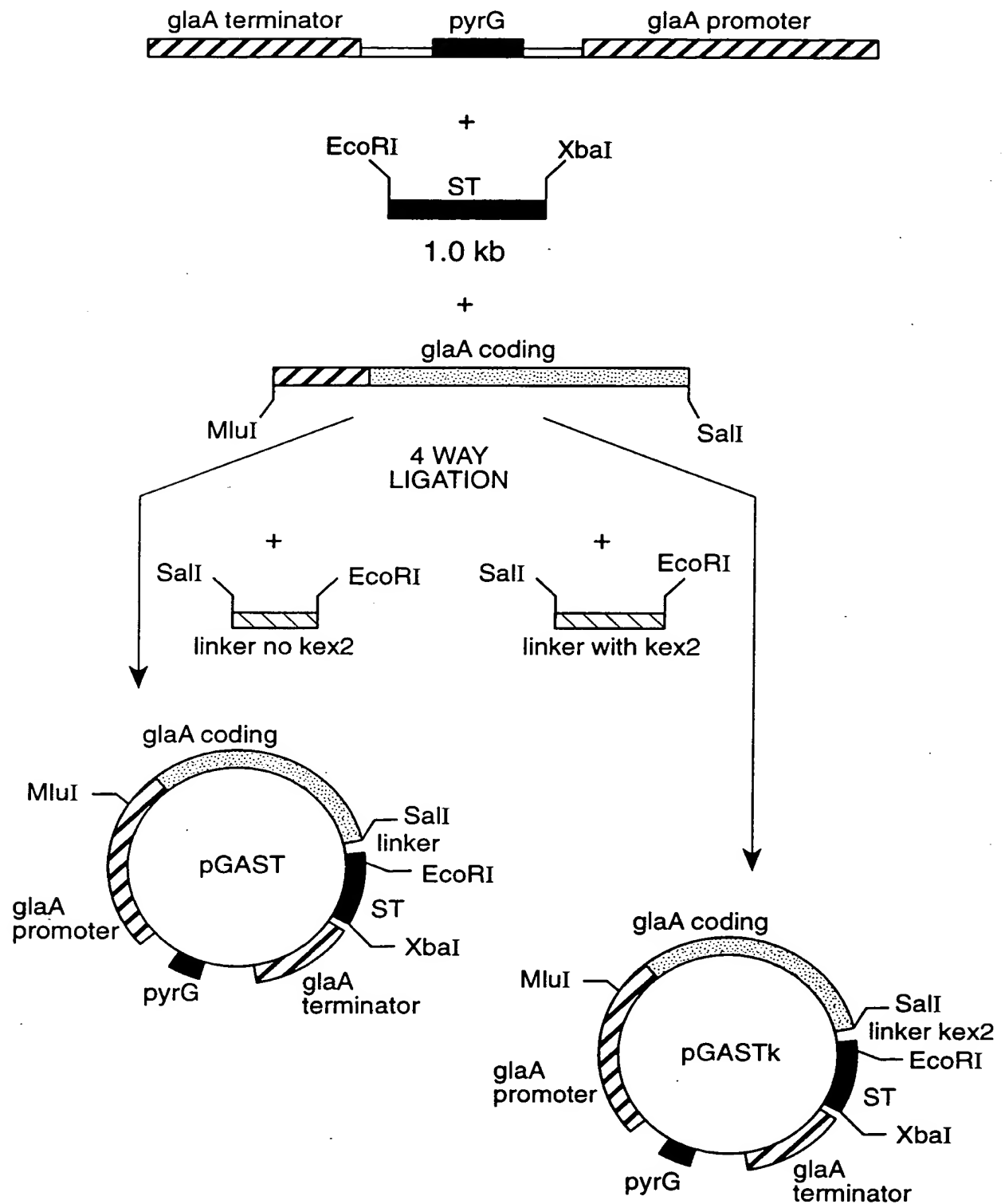
**CORRECT CLONES
VERIFIED BY
SEQUENCING**

GAM-ST link SalI-EcoRI with kex

TCG ACC GCG ACG GTG ACC GAC ACC TGG CGG AAG CGC CTA CAC TTA CTC
 CAA TGG GAA GAC TCG
 A ATT CGA GTC TTC CCA TTG GAG TAA GTG TAG GCG CTT CCG CCA GGT GTC
 GGT CAC CGT CGC GG

FIG._2B**FIG._2C**

**FIG._2D**

**FIG. 2E**

09061019 041598

5' CTAGCAAGCTACACTTACTCCAATGGGAAGACTCG 3'
 5' AATTCGAGTCTTACCATTGGAGTAAGTGTAGCTTG 3'

Annealed and
phosphorylated

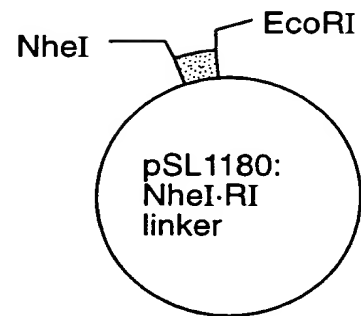
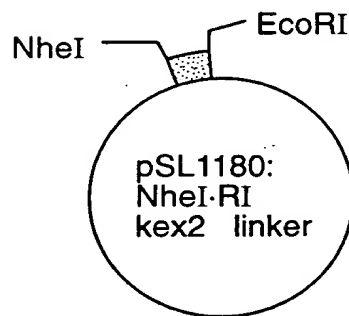
linker with a kex2 protease cleavage site

5' CTAGCAAGCGCCTACACTTACTCCAATGGGAAGACTCG 3'
 5' AATTCGAGTCTTACCATTGGAGTAAGTGTAGGCGCTTG 3'

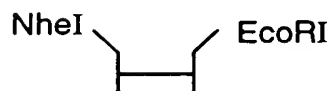
Annealed and
phosphorylated

Ligated into
pSL1180:
NheI/EcoRI

Ligated into
pSL1180:
NheI/EcoRI



Sequenced and identified
correct linkers
Digested with NheI/EcoRI



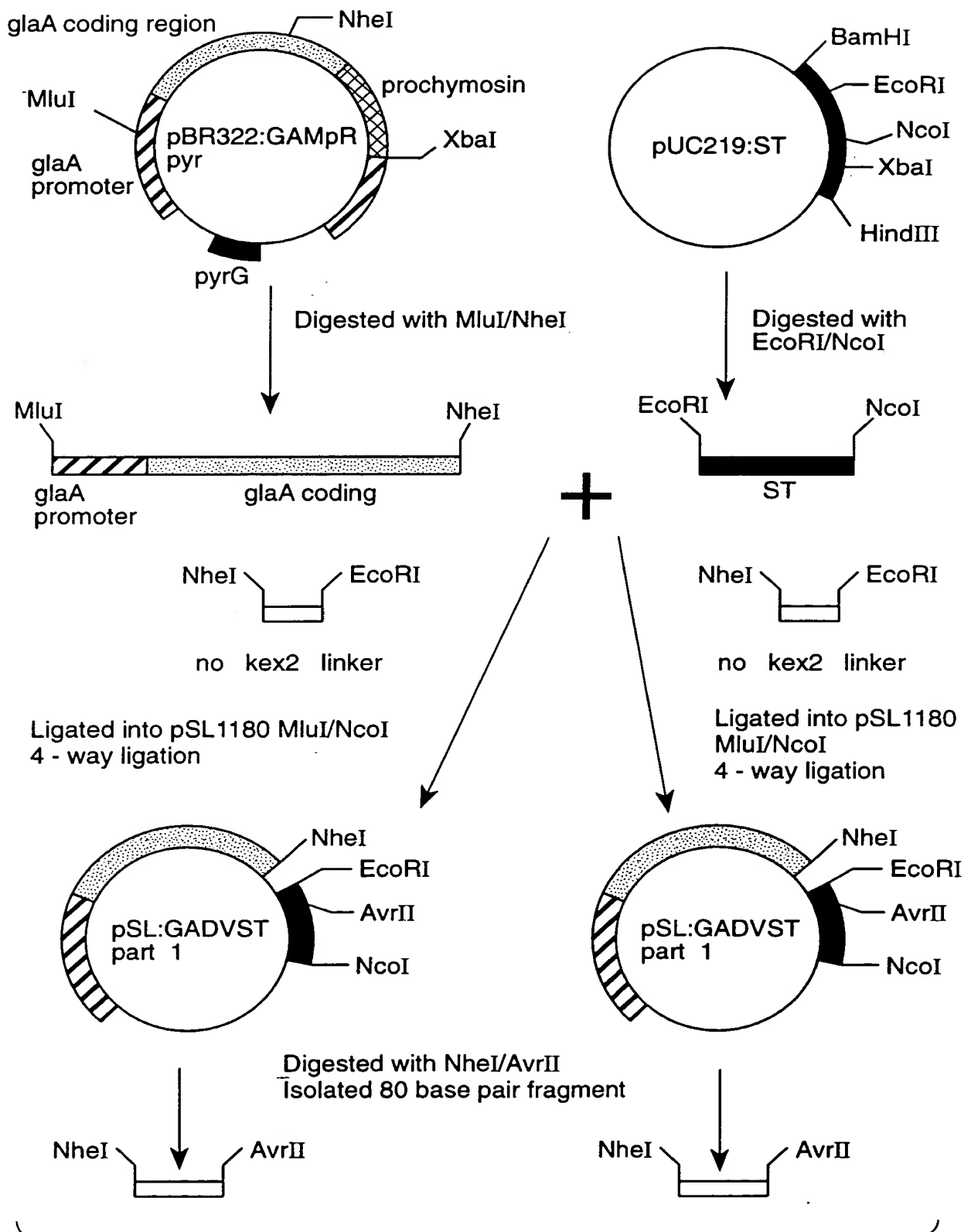
kex2 linker



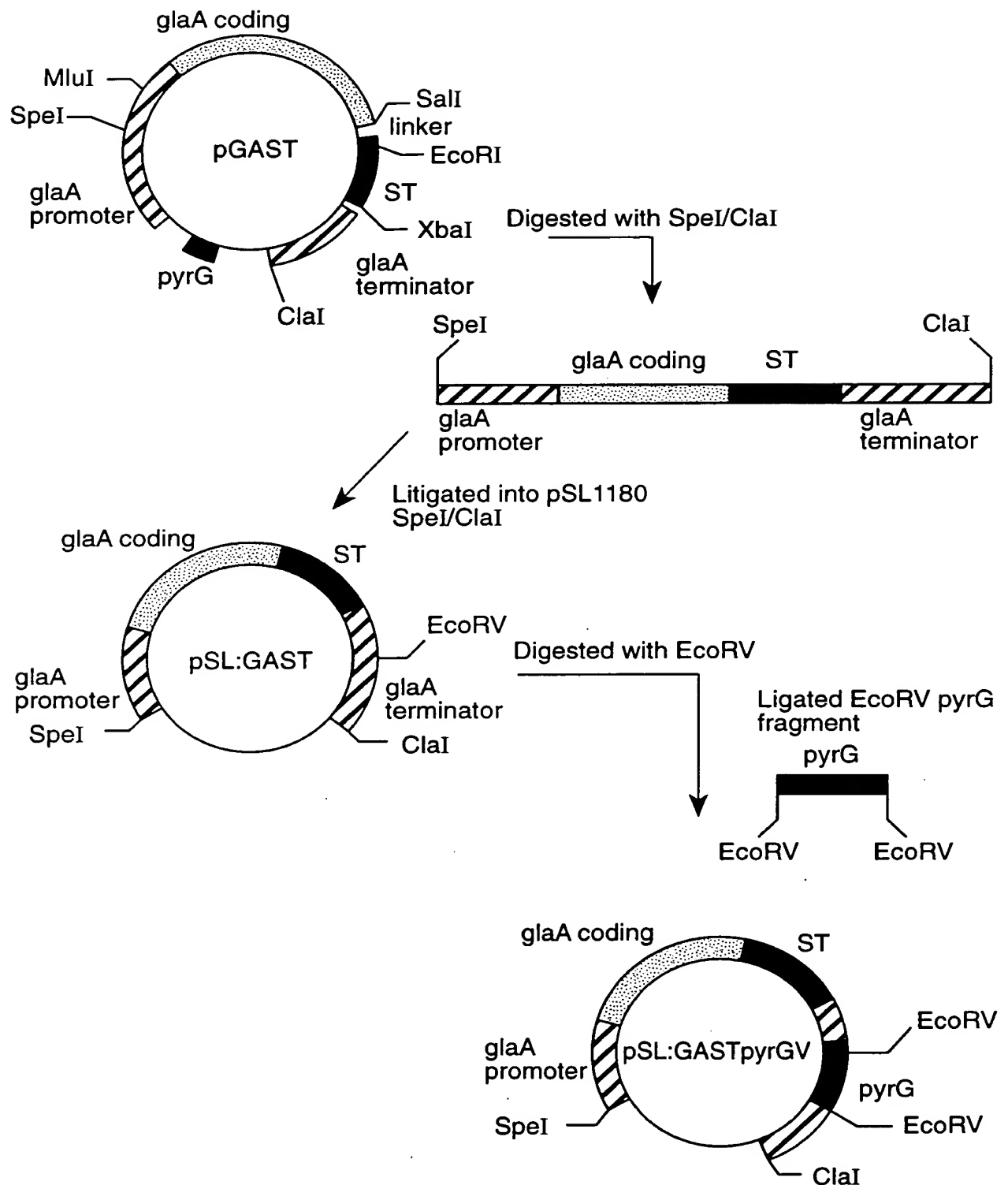
no kex2 linker

FIG._3A

09061019-041598
 865440-6T0T9060

**FIG. 3B**

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**FIG._3C**

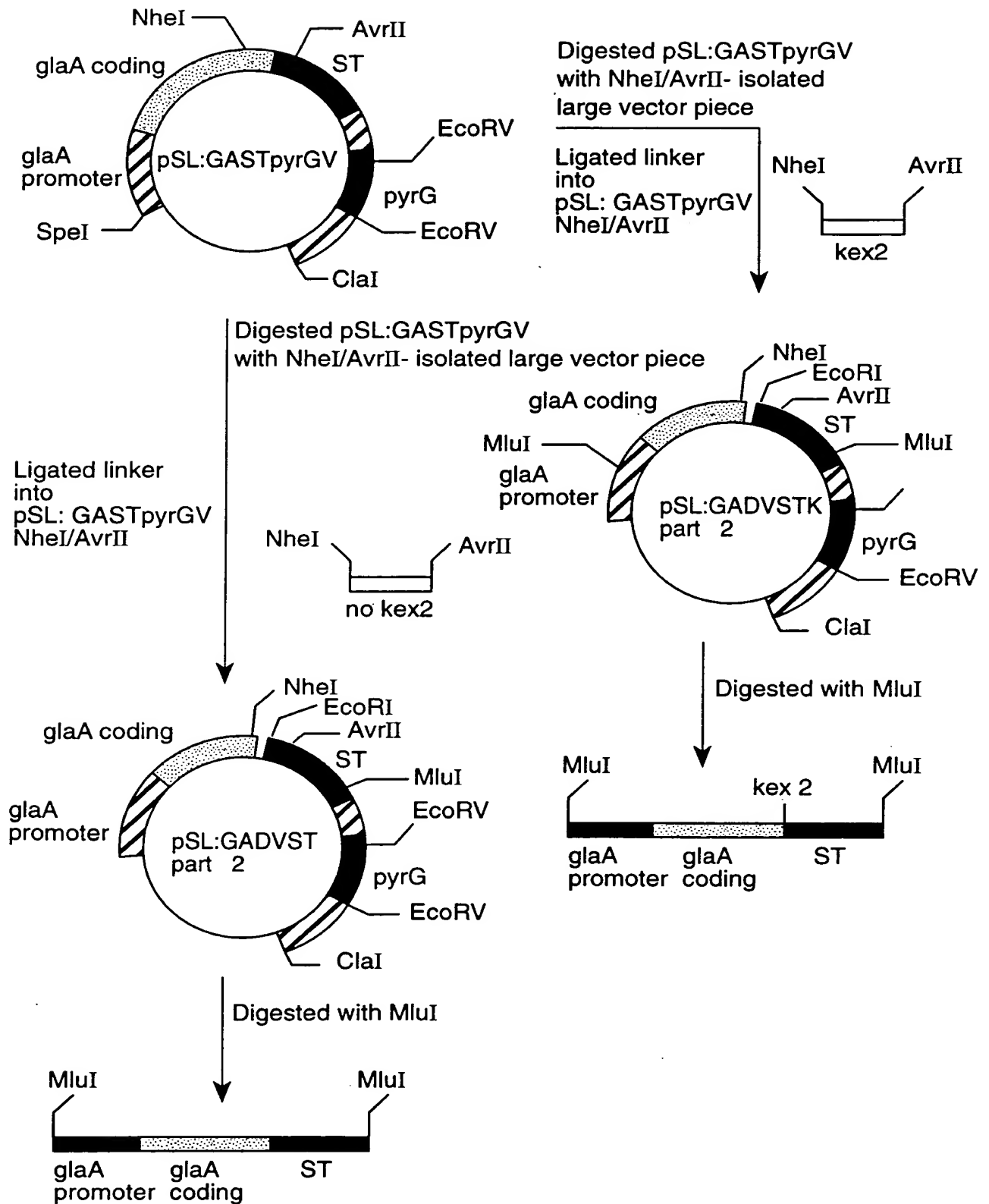
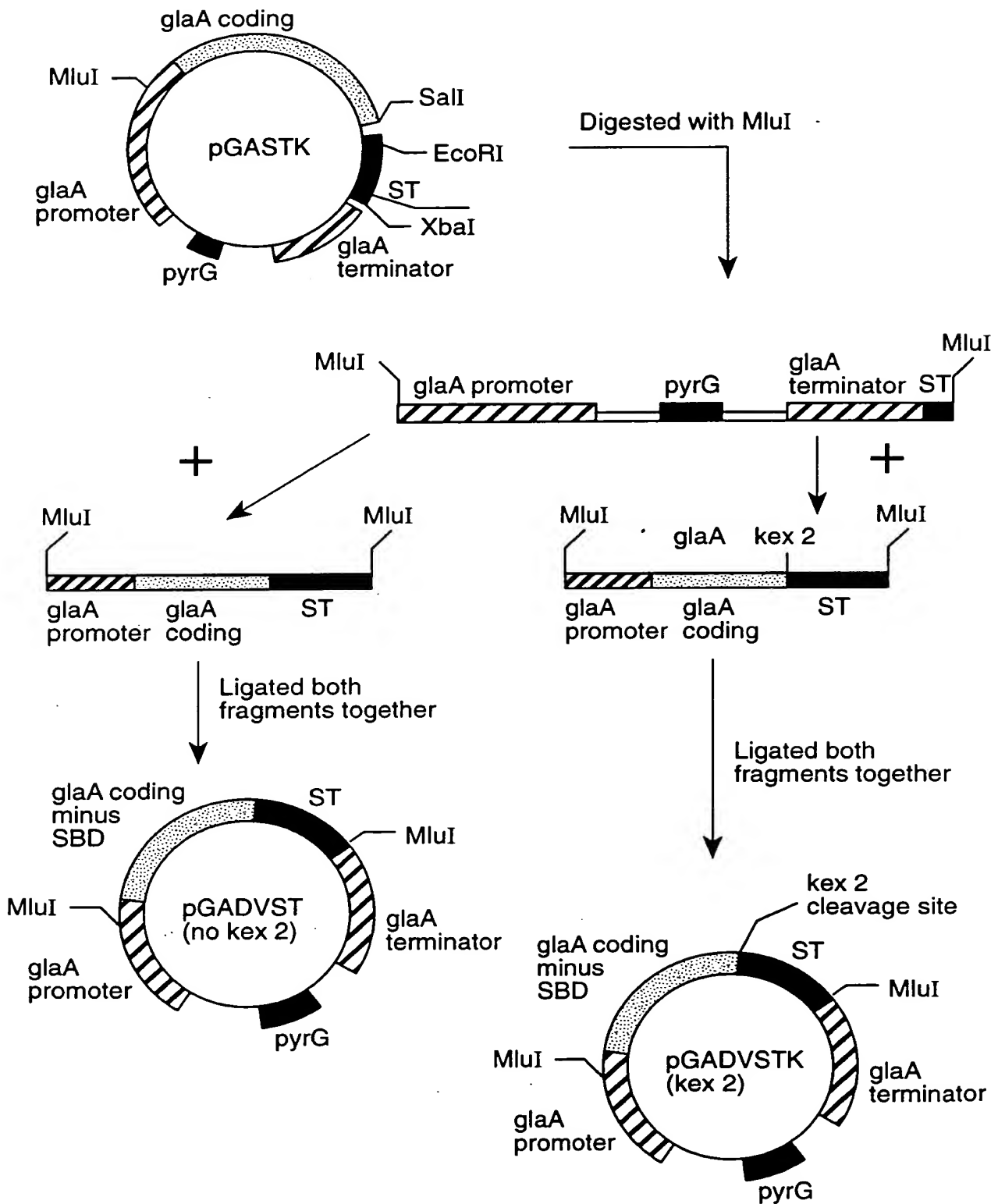


FIG._3D

**FIG. 3E**

2155T-40" 6T0T9060

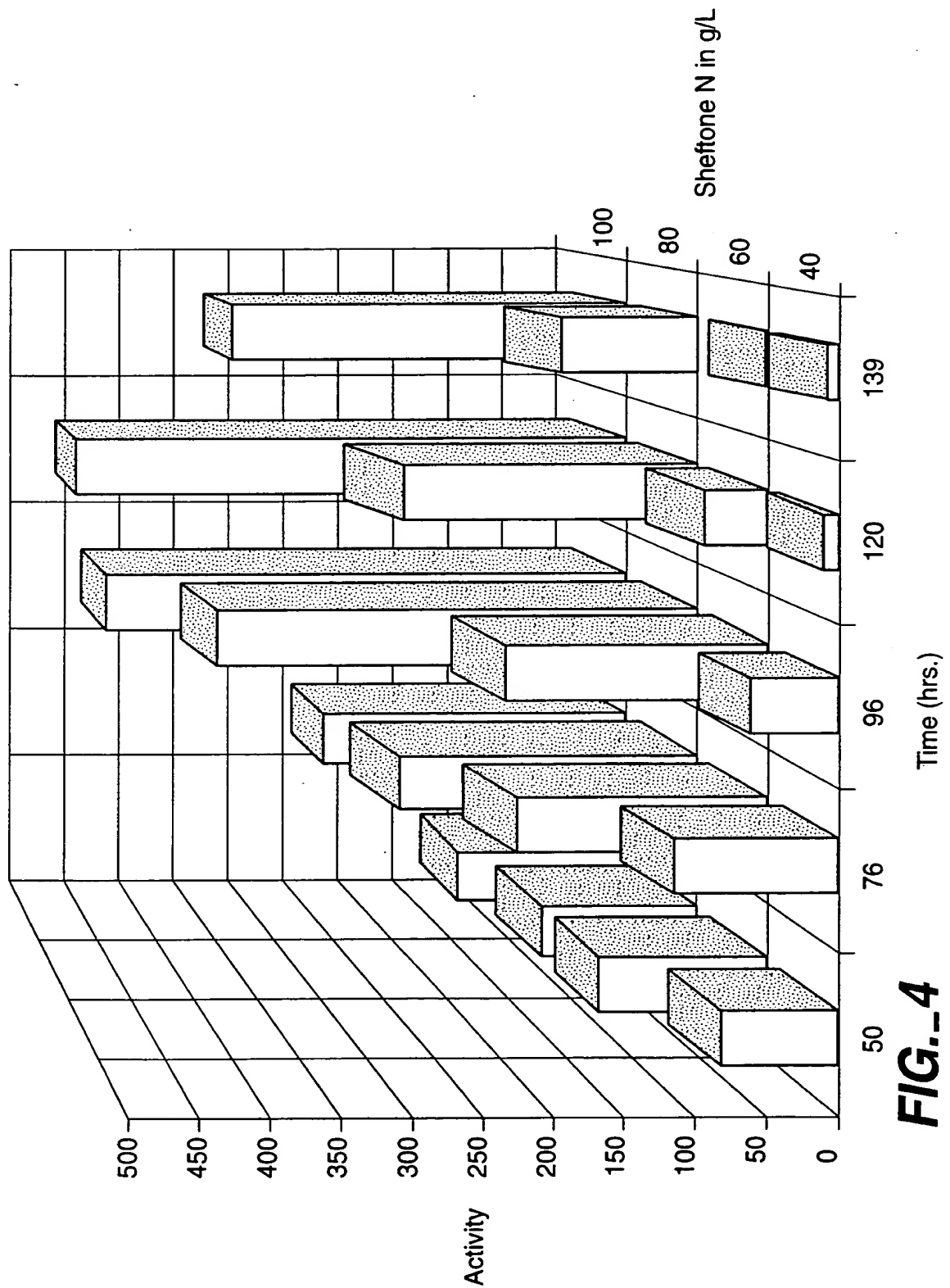
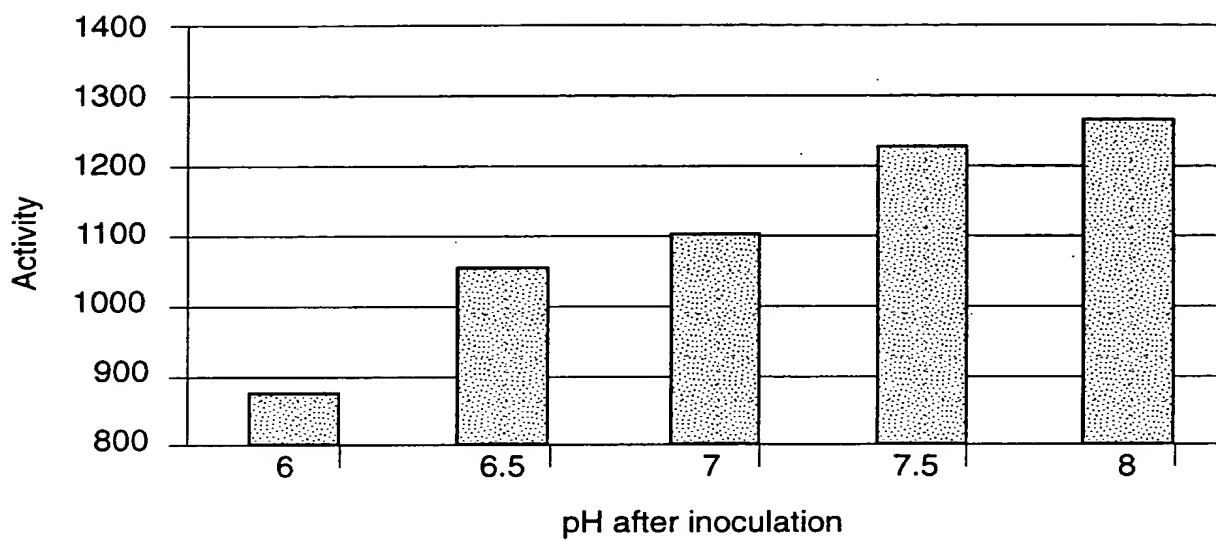
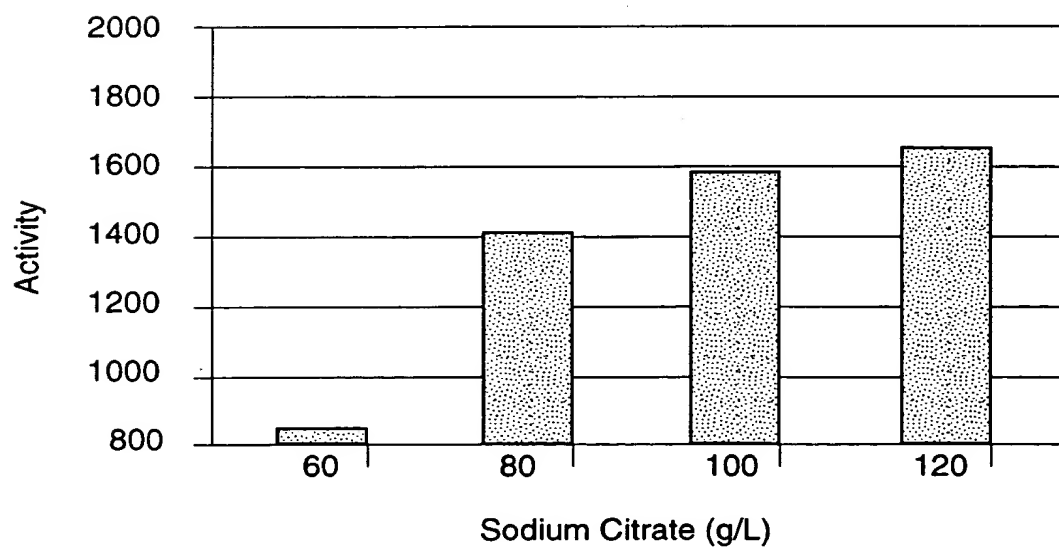
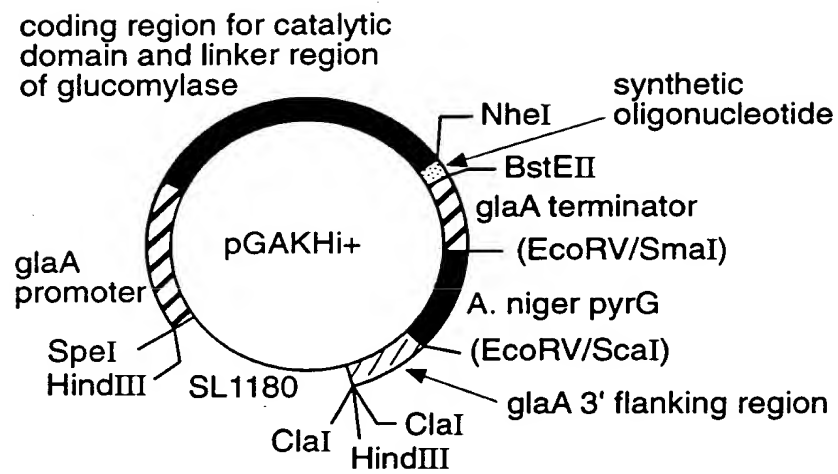
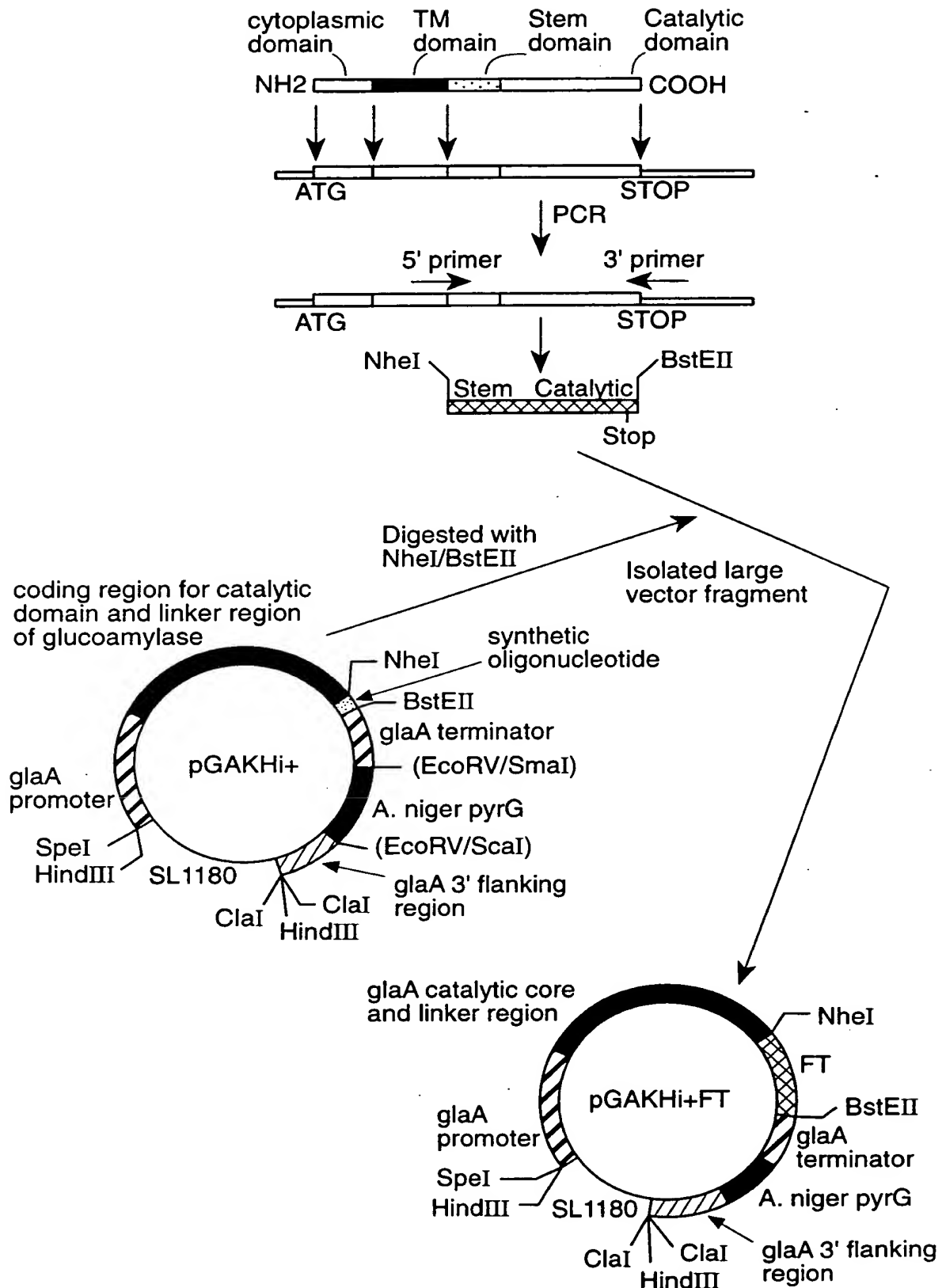


FIG..4

**FIG._5****FIG._6**

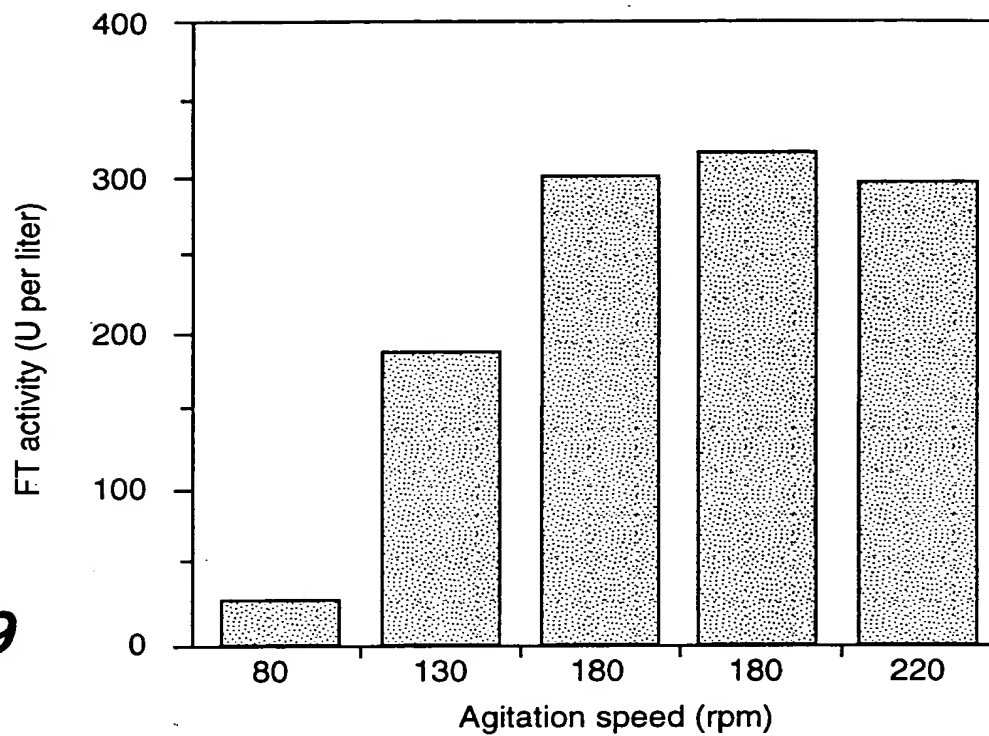
**FIG._7**

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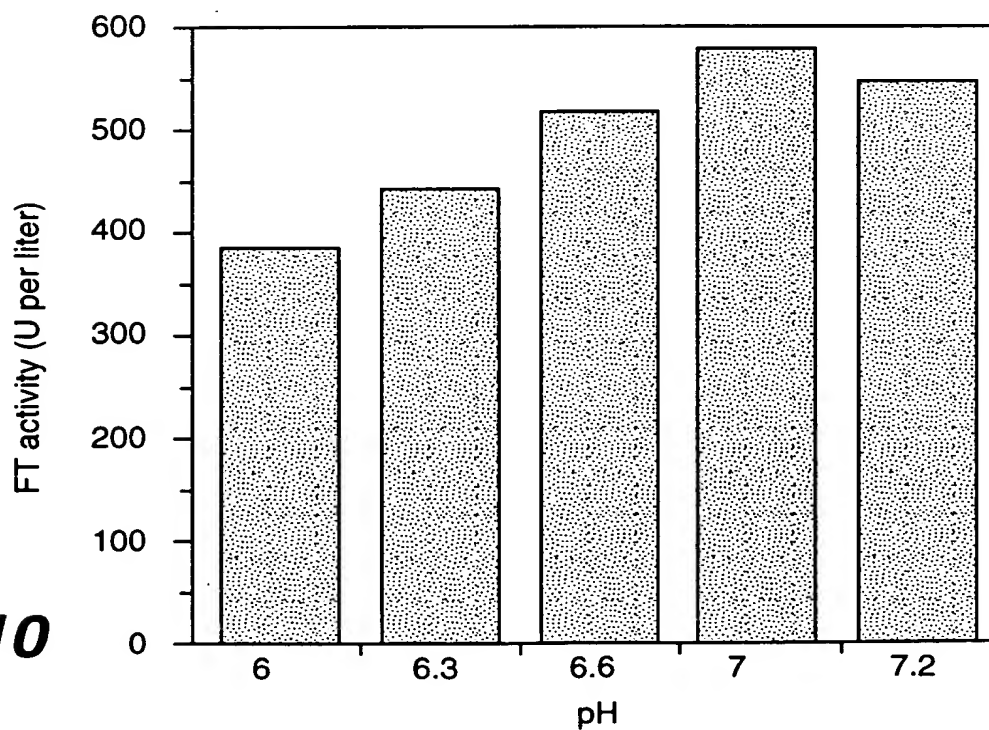
**FIG._8**

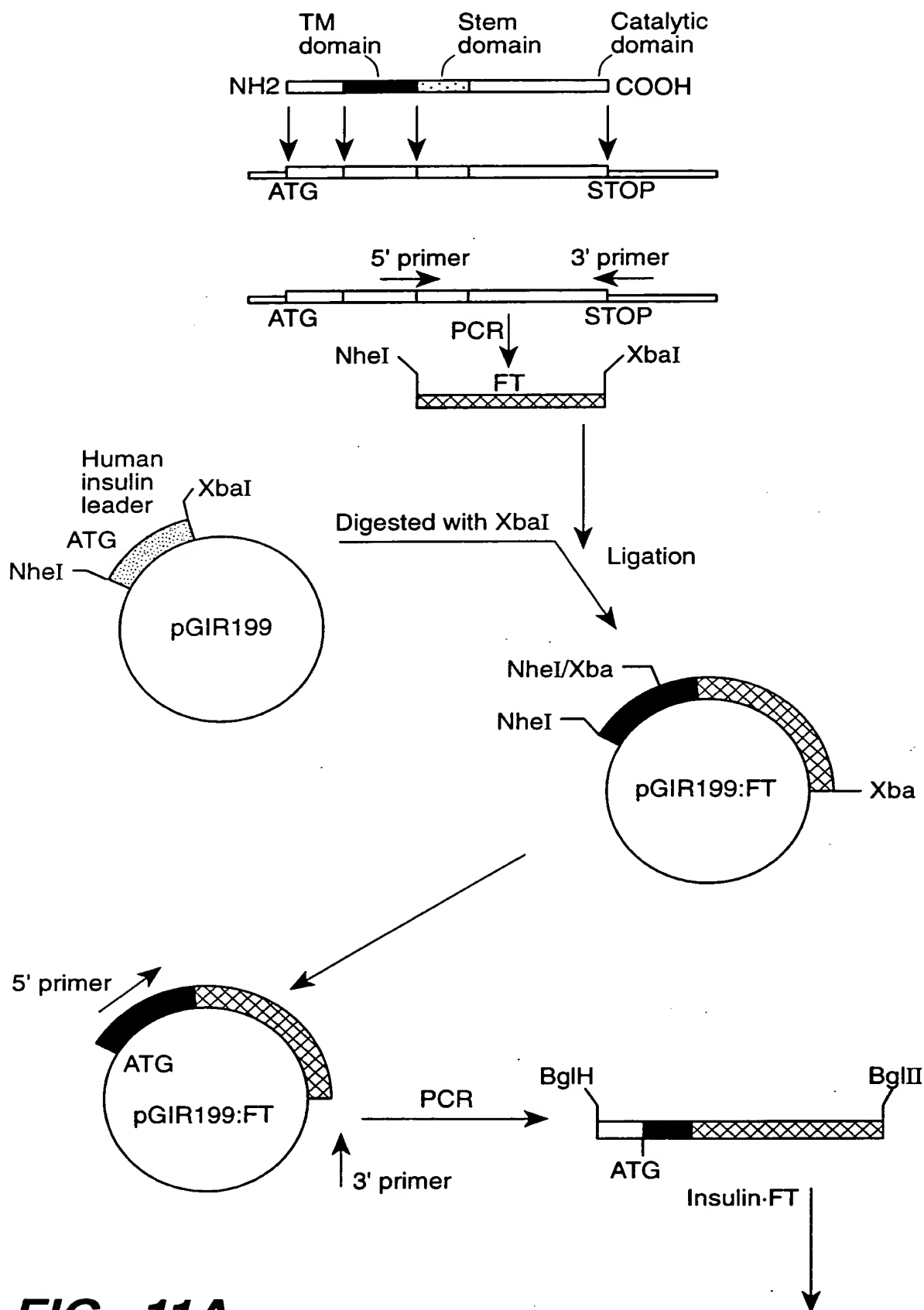
09061019-041598

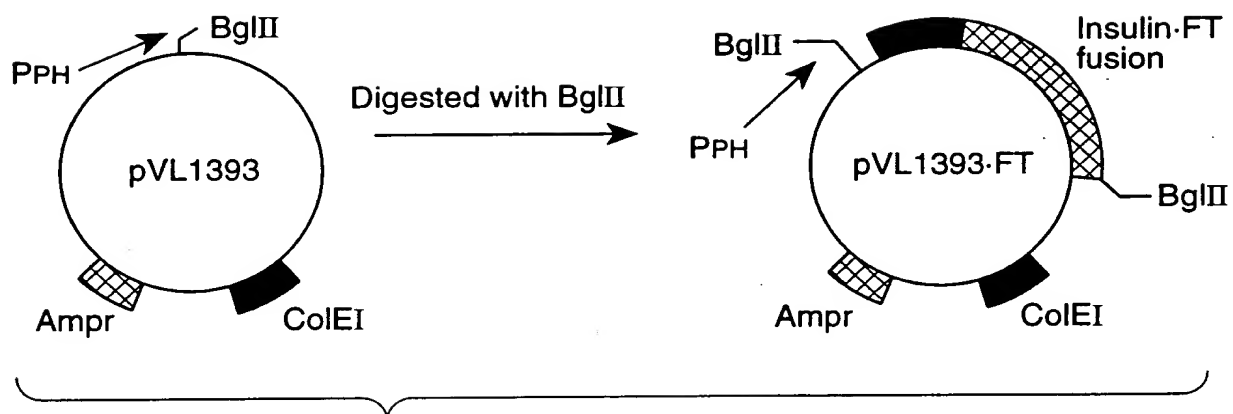
KK17 A. niger FT transformant
4 days, 32C, pH 7.0

**FIG._9**

KK17 FT transformant
4 days, 32C, 220 rpm

**FIG._10**

**FIG._11A**

**FIG._11B****FIG._11A****FIG._11****FIG._11B**

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